resident individual, assign this factor a value of 0. Enter this value in Table 5-1.

If no person meets the criteria for a resident individual, determine the shortest travel distance from the site to any residence or school. In determining the travel distance, measure the shortest overland distance an individual would travel from a residence or school to the nearest area of observed contamination for the site with an attractiveness/accessibility factor value greater than 0. If there are no natural barriers to travel, measure the travel distance as the shortest straight-line distance from the residence or school to the area of observed contamination. If natural barriers exist ffor example, a river), measure the travel distance as the shortest straight-line distance from the residence or school to the nearest crossing point and from there as the shortest straightline distance to the area of observed contamination. Based on the shortest travel distance, assign a value from Table 5-9 to the nearest individual factor. Enter this value in Table 5-1.

TABLE 5-9.—NEARBY INDIVIDUAL FACTOR
VALUES

Travel distance for nearby individual (miles)	Assigned value
Greater than 0 to ¼	1ª 0

* Assign a value of 0 if one or more persons meet the section 5.1.3 criteria for resident individual.

5.2.3.2 Population within 1 mile.

Determine the population within each travel distance category of Table 5-10. Count residents and students who attend school within this travel distance. Do not include those people already counted in the resident population threat. Determine travel distances as specified in section 5.2.3.1.

In estimating residential population, when the estimate is based on the number of residences, multiply each residence by the average number of persons per residence for the county in which the residence is located. Based on the number of people included within a travel distance category, assign a distance-weighted population value for that travel distance from Table 5–10.

Calculate the value for the population within 1 mile factor (PN) as follows:

$$PN = \frac{1}{10} \sum_{i=1}^{3} W$$

where:

W_i=Distance-weighted population value from Table 5-10 for travel distance category i.

If PN is less than 1, do not round it to the nearest integer, if PN is 1 or more, round to the nearest integer. Enter this value in Table

5.2.3.3 Calculation of nearby population targets factor category value. Sum the values for the nearby individual factor and the population within 1 mile factor. Do not round this sum to the nearest integer. Assign this sum as the targets factor category value for the nearby population threat. Enter this value in Table 5-1.

TABLE 5-10.—DISTANCE-WEIGHTED POPULATION VALUES FOR NEARBY POPULATION THREAT *

		-										
	<u> </u>				Number of	people with	nin the trave	distance (category			
Travel distance category (miles)	0	1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 .to 300,000	300,001 to 1,000,000
Greater than 0 to 1/2 Greater than 1/2 to 1/2		0.1 0.05 0.02	0.4 0.2 0.1	1.0 0.7 0.3	4 2 1	13 7 3	41 20 10	130 65 33	408 204 102	1,303 652 326	4,081 2,041 1,020	13,034 6,517 3,258

*Round the number of people present within a travel distance category to nearest integer. Do not round the assigned distance-weighted population value to nearest integer.

5.2.4 Calculation of nearby population threat score. Multiply the values for likelihood of exposure, waste characteristics, and targets for the nearby population threat, and round the product to the nearest integer. Assign this product as the nearby population threat score. Enter this score in Table 5-1.

5.3 Calculation of soil exposure pathway score. Sum the resident population threat score and the nearby population threat score, and divide the sum by 82,500. Assign the resulting value, subject to a maximum of 100, as the soil exposure pathway score (S_s). Enter this score in Table 5-1.

6:0 Air Migration Pathway

Evaluate the air migration pathway based on three factor categories: likelihood of release, waste characteristics, and targets. Figure 8-1 indicates the factors included within each factor category.

Determine the air migration pathway score (S_a) in terms of the factor category values as follows:

$$S_a = \frac{(LR)(WC)(T)}{SF}$$

where:

LR=Likelihood of release factor category value.

WC=Waste characteristics factor category value.

T=Targets factor category value.

SF=Scaling factor.

Table 6-1 outlines the specific calculation procedure.

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Observed Release

or

Potential to Release

- Gas Potential to Release
 - Gas Containment
 - Gas Source Type
 - Gas Migration Potential
- Particulate Potential to Release
 - Particulate Containment
 - Particulate Source Type
 - Particulate Migration Potential

Toxicity/Mobility

- Toxicity
 - Chronic
 - Carcinogenic
 - Acute
- Mobility
 - Gaseous Mobility
 - Particulate Mobility

Hazardous Waste Quantity

- · Hazardous Constituent Ouantity
- · Hazardous Wastestream Quantity
- Volume
- Area

Nearest Individual Population

- Lavel I Concentrations
- Level II Concentrations
- Potential Contamination Resources

Sensitive Environments

- Actual Contamination
- Potential Contamination

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FIGURE 6-1 OVERVIEW OF AIR MIGRATION PATHWAY

TABLE 6-1.—AIR MIGRATION PATHWAY SCORESHEET

ikelihood of Release 1. Observed Release 2. Potential to Release 22. Gas Potential to Release 23. Particulate Potential to Release 24. Potential to Release (higher of lines 2a and 2b) 3. Likelihood of Release (higher of lines 1 and 2c) aste Characteristics 4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Cheracteristics 7. Nearest Individual 8. Population: 8a. Level I Concentrations 8b. Level II Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a + 10b) 11. Targets (lines 7 + 8d + 9 + 10c) Migration Pathway Score	Maximum value	Value assigne
1. Observed Release 2. Potential to Release 2a. Gas Potential to Release 2b. Particulate Potential to Release 2c. Potential to Release (higher of lines 2a and 2b) 3. Likelihood of Release (higher of lines 1 and 2c) aste Characteristics 4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics regets 7. Nearest Individual 8. Population: 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8c. Potential Contamination 8d. Population (lines 8a+8b+8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)		-
2a. Gas Potential to Release 2b. Particulate Potential to Release 2c. Potential to Release (higher of lines 2a and 2b) 3. Likelihood of Release (higher of lines 1 and 2c) aste Characteristics 4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics regets 7. Nearest Individual 8. Population: 8a. Level ! Concentrations 8b. Level !! Concentrations 8c. Potential Contamination 8c. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a + 10b) 11. Targets (lines 7 + 8d + 9 + 10c)		}
2a. Gas Potential to Release 2b. Particulate Potential to Release 2c. Potential to Release (higher of lines 2a and 2b) 3. Likelihood of Release (higher of lines 1 and 2c) aste Characteristics 4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics regets 7. Nearest Individual 8. Population: 8a. Level ! Concentrations 8b. Level !! Concentrations 8c. Potential Contamination 8c. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a + 10b) 11. Targets (lines 7 + 8d + 9 + 10c)	550	t
2c. Potential to Release (higher of lines 2a and 2b) 3. Likelihood of Release (higher of lines 1 and 2c) aste Characteristics 4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics rgets 7. Nearest Individual 8. Population: 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)		
2c. Potential to Release (higher of lines 2a and 2b) 3. Likelihood of Release (higher of lines 1 and 2c) aste Characteristics 4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics rgets 7. Nearest Individual 8. Population: 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	500	
3. Likelihood of, Release (higher of lines 1 and 2c) aste Characteristics 4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics regets 7. Nearest Individual 8. Population: 8a. Level Concentrations 8b. Level Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	500	
4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics regets 7. Nearest Individual 8. Population: 8a. Level ! Concentrations 8b. Level !! Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a + 10b) 11. Targets (lines 7 + 8d + 9 + 10c)	500	
4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics rigets 7. Nearest Individual 8. Population: 8a. Level ! Concentrations 8b. Level !I Concentrations 8c. Potential Contamination 8d. Population (lines 8a+8b+8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	550	
6. Waste Characteristics rigets 7. Nearest Individual 8. Population: 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	. •••	-
6. Waste Characteristics rigets 7. Nearest Individual 8. Population: 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	(a)	
7. Nearest Individual 8. Population: 8a. Level ! Concentrations 8b. Level ! Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a + 10b) 11. Targets (lines 7 + 8d + 9 + 10c)	(a)	
7. Nearest Individual. 8. Population: 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a+8b+8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	100	
8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	100	
8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a + 8b + 8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	50	
8c. Potential Contamination 8d. Population (lines 8a+8b+8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	- 30	
8c. Potential Contamination 8d. Population (lines 8a+8b+8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	(b)	
8d. Population (lines 8a+8b+8c) 9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	(6)	
9. Resources 10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	(b)	
10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	(0)	
10a. Actual Contamination 10b. Potential Contamination 10c. Sensitive Environments (lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	(a)	
10c. Sensitive Environments (lines 10a+10b)	٠ ١	
10c. Sensitive Environments (lines 10a+10b)	(c)	ī.
11. Targets (lines 7+8d+9+10c)	(c)	
Midration Pethwey Cons	(c)	_
	(b)	
12. Pathway Score (S_) [(lines 3×6×11)/82,500] 4	ינטו	
* Maximum value applies to words about	100	

laximum value applies to waste characteristics category.

Maximum value or not applicable.

Maximum value not applicable.

No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to maximum of 60.

6.1 Likelihood of Release. Evaluate the likelihood of release factor category in terms of an observed release factor or a potential to release factor.

6.1.1 Observed release. Establish an observed release to the atmosphere by demonstrating that the site has released a hazardous substance to the atmosphere. Base this demonstration on either:

 Direct observation—a material (for example, particulate matter) that contains one or more hazardous substances has been seen entering the atmosphere directly. When evidence supports the inference of a release of a material that contains one or more hazardous substances by the site to the atmosphere, demonstrated adverse effects accumulated with that release may be used to establish an observed release

 Chemical analysis—an analysis of air samples indicates that the concentration of

ambient hazardous substance(s) has increased significantly above the background concentration for the site (see section 2.3). Some portion of the significant increase must be attributable to the site to establish the observed release.

If an observed release can be established. assign an observed release factor value of 550, enter this value in Table 6-1, and proceed to section 6.1.3. If an observed release cannot be established, assign an observed release factor value of 0, enter this value in Table 6-1, and proceed to section

6.1.2 Potential to release. Evaluate potential to release only if an observed release cannot be established. Determine the potential to release factor value for the site by separately evaluating the gas potential to release and the particulate potential to release for each source at the site. Select the

highest potential to release value (either gas or particulate) calculated for the sources evaluated and assign that value as the site potential to release factor value as specified below.

6.1.2.1 Gas potential to release. Evaluate gas potential to release for those sources that contain gaseous hazardous substances—that is, those hazardous substances with a vapor pressure greater than or equal to 10" torr.

Evaluate gas potential to release for each source based on three factors: gas containment, gas source type, and gas migration potential. Calculate the gas potential to release value as illustrated in Table 6-2. Combine sources with similar characteristics into a single source in evaluating the gas potential to release factors.

TABLE 6-2.—GAS POTENTIAL TO RELEASE EVALUATION

Source	Source type *	Gas containment factor value	Gas source type factor value c	Gas migration potential factor value 4	Sum	Gas source value
		A	8	С	(B+C)	A(B+C)

**************************************			** ***********************************	***************************************		

<sup>a Enter a Source Type listed in Table 6-4.
b Enter Gas Containment Factor Value from section 6.1.2.1.1.
c Enter Gas Source Type Factor Value from section 6.1.2.1.2.
d Enter Gas Migration Potential Factor Value from section 6.1.2.1.3.</sup>

6.1.2.1.1 Gas containment. Assign each source a value from Table 6-3 for gas containment. Use the lowest value from

Table 6-3 that applies to the source, except: assign a value of 10 if there is evidence of

biogas release or if there is an active fire within the source.

TABLE 6-3.—GAS CONTAINMENT FACTOR VALUES

Gas containment description	Assigne value
Il situations except those specifically listed below	
vidence of biogas release	10
ctive fire within source	10 •
as collection/treatment system functioning, regularly inspected, maintained, and completely covering source ource substantially surrounded by engineering windbreak and no other containment specifically described in this table analise.	10 •
ource substantially surrounded by engineering windbreak and no other containment specifically described in this table applies	0
DUICE COvered with essentially impermeable, recularly inspected, maintained asset	7
ncontaminated soil cover >3 feet	.0
Source substantially vegetated with little exposed soil	
Source lightly vegetated with much exposed soil	0
Source substantially vegetated with little exposed soil Source lightly vegetated with much exposed soil Source substantially devoid of vegetation	3
ncontaminated soil cover >1 foot and >3 feet	. 7
Source heavily vegetated with essentially no exposed soil	•
—Cover soil type resistant to gas migration —Cover soil type not resistant to gas migration or unknown	
Cover soil type not resistant to gas migration or unknown. Source substantially vegetated with little exposed soil and common and the substantially vegetated with little exposed soil and common and the substantially vegetated with little exposed soil and common and the substantially vegetated with little exposed soil and common and the substantial substa	3
	7
Other	7
ncontaminated soil cover <1 foot:	10
Source heavity vegetated with essentially no exposed exit and cover exit two excitates to account to the essentially no exposed exit and cover exit two excitates to account to the essentially no exposed exit and cover exit two excitates to the exit to the extension of the essentially no exposed exit and cover exit two excitates to the exit to the extension of the extension	
Other	7
otally or partially enclosed within structurally intent building and no other containment and in the structurally intent building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and no other containment and in the structural building and the structural building and in the structural building and an arrangement and an arrangement and an arrangement and arrangement and arr	10
	7
Totally protected from weather by regularly increated maintained ease.	
Totally protected from weather by regularly inspected, maintained cover Other	0
• Other	3

6.1.2.1.2 Gas source type. Assign a value for gas source type to each source as follows:

- Determine if the source meets the minimum size requirement based on the source hazardous waste quantity value (see section 2.4.2.1.5). If the source receives a source hazardous waste quantity value of 0.5 or more, consider the source to meet the minimum size requirement.
- If the source meets the minimum size requirement, assign it a value from Table 6-4 for gas source type.
- If the source does not meet the minimum size requirement, assign it a value of 0 for gas source type.

If no source at the site meets the minimum size requirement, assign each source at the site a value from Table 6-4 for gas source type.

TABLE 6-4.—SOURCE TYPE FACTOR **VALUES**

Source type	Assigned value		
Source type	Gas	Partic- ulate	
Active fire area	14	30	
Burn pit Containers or tanks (buried/below- ground):	19	22	
Evidence of biogas release	33	22	
 No evidence of biogas release Containers or tanks, not elsewhere 	11	22	
specified	28	14	
treatment)	19	22	
Landfarm/land treatment	28	22	

TABLE 6-4.—SOURCE TYPE FACTOR VALUES—Concluded

Source type		Assigned value		
	Gas	Partic- ulate		
Landfill:				
 Evidence of biogas release 	33	22		
 No evidence of biogas release 	11	22		
Pile:				
Tailings pile	6	28		
 Scrap metal or junk pile 	6	17		
Trash pile	. 6	6		
Chemical waste pile	11	28		
Other waste piles	17	28		
Surface impoundments (buried/backfilled):				
 Evidence of biogas release 	33	22		
 No evidence of biogas release 	11	22		
Surface impoundment (not buried/ backfilled):				
• Dry	19	22		
Other	28	0		
Other types of sources, not else-				
where specified	0	0		

- 6.1.2.1.3 Gas migration potential. Evaluate this factor for each source as follows:
- Assign a value for gas migration potential to each of the gaseous hazardous substances associated with the source (see section 2.2.2) as follows:
 - -Assign values from Table 6-5 for vapor pressure and Henry's constant to each hazardous substance. If Henry's constant cannot be determined for a hazardous substance, assign that hazardous substance a value of 2 for the Henry's constant component.

Sum the two values assigned to the hazardous substance.

- -Based on this sum, assign the hazardous substance a value from Table 8-6 for gas migration potential.
- Assign a value for gas migration potential to each source as follows:
 - -Select three hazardous substances associated with the source:
 - --If more than three gaseous hazardous substances can be associated with the source, select three that have the highest gas migration potential values.
 - -- If fewer than three gaseous hazardous substances can be associated with a source, select all of them.
 - -Average the gas migration potential values assigned to the selected hazardous substances.
 - -Based on this average value, assign the source a gas migration potential value from Table 6-7.

TABLE 6-5.—VALUES FOR VAPOR PRESSURE AND HENRY'S CONSTANT

Vapor pressure (Torr)	Assigned value
Greater than 10	3 2 1 0

Henry's constant (atm-m²/mol)	Assigned value
Greater than 10 ⁻³	3
Greater than 10 ⁻⁵ to 10 ⁻³	3
10 ⁻⁷ to 10 ⁻⁵	1
Less than 10-7	ò
	•

This value must be used if applicable.
 Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration. Consider all other soils nonresistant.

TABLE 6-6.—GAS MIGRATION POTENTIAL **VALUES FOR A HAZARDOUS SUBSTANCE**

Sum of values for vapor pressure and Henry's constant	Assigned value
0	0
1 or 2	6
3 or 4	17

TABLE 6-7.—GAS MIGRATION POTENTIAL **VALUES FOR THE SOURCE**

Average of gas migration potential values for three hazardous substances •	Assigned value
0 to < 3	0

TABLE 6-7.—GAS MIGRATION POTENTIAL VALUES FOR THE SOURCE—Concluded

Average of gas migration potential values for three hazardous substances •	Assigned value
8 to < 14	11 17

* If fewer than three hazardous substances can be associated with the source, compute the average based only on those hazardous substances that can be associated.

6.1.2.1.4 Calculation of gas potential to release value. Determine the gas potential to release value for each source as illustrated in Table 6-2. For each source, sum the gas source type factor value and gas migration potential factor value and multiply this sum by the gas containment factor value. Select the highest product calculated for the sources evaluated and assign it as the gas potential to release value for the site. Enter this value in Table 6-1.

6.1.2.2 Particulate potential to release. Evaluate particulate potential to release for those sources that contain particulate hazardous substances—that is, those hazardous substances with a vapor pressure less than or equal to 10-1 torr.

Evaluate particulate potential to release for each source based on three factors: particulate containment, particulate source type, and particulate migration potential. Calculate the particulate potential to release value as illustrated in Table 6-8. Combine sources with similar characteristics into a single source in evaluating the particulate potential to release factors.

6.1.2.2.1 Particulate containment. Assign each source a value from Table 6-9 for particulate containment. Use the lowest value from Table 6-9 that applies to the source.

6.1.2.2.2 Particulate source type. Assign a value for particulate source type to each source in the same manner as specified for gas sources in section 6.1.2.1.2.

6.1.2.2.3 Particulate migration potential. Based on the site location, assign a value from Figure 6-2 for particulate migration potential. Assign this same value to each source at the site.

TABLE 6-8.—PARTICULATE POTENTIAL TO RELEASE EVALUATION

Source	Source type •	Particulate containment factor value b	Particulate type factor value c migration potential factor value d		Sum	Particulate source value
1		A	В	С	(B+C)	A (B+C)
2	***************************************					
3		*************************************				
4						
5				1		
6				**************************************		
7				************************		
8	***************************************	*************************		***************************************	********************************	
	Particulate Deter	tial to Release Factor	Value-/Coloot Hinboot	Bertindete Causes Vol	h.a1	***************************************

Enter a Source Type listed in Table 6-4.
 Enter Particulate Containment Factor Value from section 6.1.2.2.1.
 Enter Particulate Source Type Factor Value from section 6.1.2.2.2.
 Enter Particulate Migration Potential Factor Value from section 6.1.2.2.3.

TABLE 6-9.—PARTICULATE CONTAINMENT FACTOR VALUES

Particulate containment description	Assigne value
Il situations except those specifically listed helow	10
Il situations except those specifically listed below	1 0
ource substantially surrounded by engineered windbreak and no other containment specifically described in this table applies	1 7
ource covered with essentially impermeable, regularly inspected, maintained cover	6
contaminated soil cover > 3 feet	
Source substantially vegetated with little or no exposed soil	
Source lightly vegetated with much exposed soil	2
Source substantially devoid of vegetation	3
ncontaminated soil cover ≥ 1 foot and ≤ 3 feet:	'
Source heavily vegetated with essentially no exposed soil:	
—Cover soil type resistant to gas migration •	3
Cover son type not resistant to gas migration or unknown	7
Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration •	7
• Other	10
ncontaminated soil cover < 1 foot:	
Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration * Other	7
• Other	10
stally or partially enclosed within structurally intact building and no other containment specifically described in this table applies	`7
ource consists solely of containers:	
All containers contain only liquids	- 0
 All containers intact, sealed, and totally protected from weather by regularly inspected, maintained cover. 	0
All containers intact and sealed	3
• Other	10

Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration. Consider all other soils nonresistant.

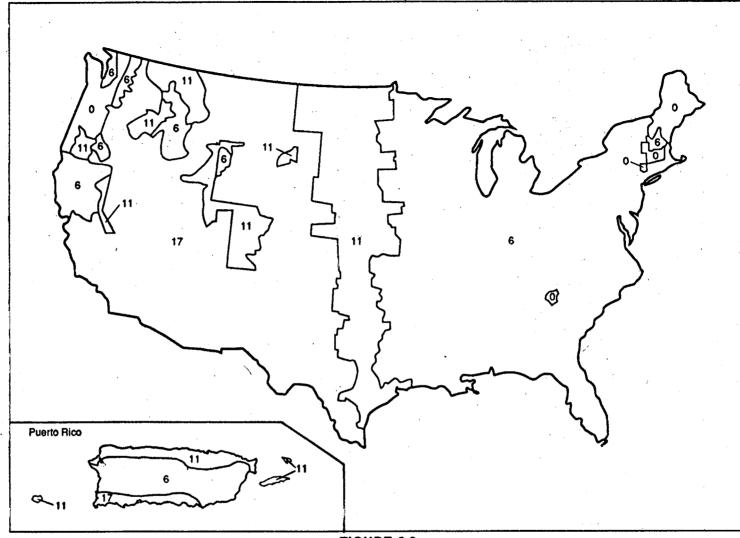


FIGURE 6-2
PARTICULATE MIGRATION POTENTIAL FACTOR VALUES

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FIGURE 6-2.—PARTICULATE MIGRATION POTENTIAL FACTOR VALUES—CONCLUDED

Location	Particulate migration potential assigned value
Hawaiian Islands	
Hilo, Hawaii	•
Honolulu, Oahu	0
Kahului, Maui	17
anci	17
LanaiLihue, Kauai	17 ·
Malete:	11
Molokai	17
Pacific Islands	
Guam	6
Johnston Island	17
Koror Island	0
Kweialein leland	-
Mujuro, Marshall Islands	ŏ
rayo rayo, wherean Samoa	ŏ
Ponage Island	ŏ
Truk, Caroline Islands	. 0
Wake Island	17
Yap Island	
Viaska	0
Anchorage	·-
Annotto	17
Annette	0)
Barrow	17
Barter Island	17
Bethel	, 17
Bettles	17
Big Detta	17
Cold Bay	6
Fairbenks	17
Gulkana	17.
Homer	11
Juneau	
King Salmon	0
Kodiak	11
Kutzebue	0
McGrath	17
McGrath	17
Nome	11
	- 11
l alkeetna	: 6
Unalakieet	17
Valdez	Ö
Yakutat	. 0
nerican Virgin Islands	
St. Croix	17
St. John	
St. Thomas	11
erto Rico	11
Arosino	
Arecibo	6
Coloso	6
Fajardo	11
Humacao	6
Isabela Station	11
Ponce	17
San Juan	11
	- 11 · · ·

For site locations not on Figure 6-2, and for site locations near the boundary points on Figure 6-2, assign a value as follows. First, calculate a Thornthwaite P-E index using the following equation:

$$PE = \sum_{i=1}^{12} 115 \left[P_i / (T_i - 10) \right]^{10/9}$$

wnere:

PE=Thornthwaite P-E index.
P_i=Mean monthly precipitation for month i, in inches.

T_i=Mean monthly temperature for month i, in degrees Fahrenheit; for any month having a mean monthly temperature less than 28.4 °F, use 28.4 °F.

Based on the calculated Thornthwaite P-E index, assign a source particulate migration potential value to the site from Table 6-10. Assign this same value to each source at the site.

TABLE 6-10.—PARTICULATE MIGRATION
POTENTIAL VALUES

Thornthwaite P-E Index	Assigned value
Greater than 150	•
85 to 150	6
50 to less than 85	-11
Less than 50	17

6.1.2.2.4 Calculation of particulate potential to release value. Determine the particulate potential to release value for each source as illustrated in Table 6-8. For each source, sum its particulate source type factor value and particulate migration potential factor value and multiply this sum by its particulate containment factor value. Select the highest product calculated for the sources evaluated and assign it as the particulate potential to release value for the site. Enter the value in Table 6-1.

6.1.2.3 Calculation of potential to release factor value for the site. Select the higher of the gas potential to release value assigned in section 6.1.2.1.4 and the particulate potential to release value assigned in section 6.1.2.2.4. Assign the value selected as the site potential to release factor value. Enter this value in Table 6-1.

6.1.3 Calculation of likelihood of release factor category value. If an observed release is established, assign the observed release factor value of 550 as the likelihood of release factor category value. Otherwise, assign the site potential to release factor value as the likelihood of release factor category value. Enter the value in Table 6-1.

6.2 Waste characteristics. Evaluate the waste characteristics factor category based on two factors: toxicity/mobility and hazardous waste quantity. Evaluate only those hazardous substances available to migrate from the sources at the site to the atmosphere. Such hazardous substances include:

 Hazardous substances that meet the criteria for an observed release to the atmosphere.

 All gaseous hazardous substances associated with a source that has a gas containment factor value greater than 0 (see section 2.2.2, 2.2.3, and 6.1.2.1.1).

 All particulate hazardous substances associated with a source that has a particulate containment factor value greater than 0 (see section 2.2.2, 2.2.3, and 6.1.2.2.1).

6.2.1 Toxicity/mobility. For each hazardous substance, assign a toxicity factor value, a mobility factor value, and a combined toxicity/mobility factor value as specified below. Select the toxicity/mobility factor value for the air migration pathway as specified in section 6.2.1.3.

6.2.1.1 Toxicity. Assign a toxicity factor value to each hazardous substance as specified in section 2.4.1.1.

6.2.1.2 Mobility. Assign a mobility factor value to each hazardous substance as follows:

Gaseous hazardous substance.

-Assign a mobility factor value of 1 to each gaseous hazardous substance that meets the criteria for an observed release to the atmosphere.

-Assign a mobility factor value from Table 6-11, based on vapor pressure, to each gaseous hazardous substance that does not meet the criteria for an observed release.

Particulate hazardous substance.

-Assign a mobility factor value of 0.02 to each particulate hazardous substance that meets the criteria for an observed release to the atmosphere.

-Assign a mobility factor value from Figure 6-3, based on the site's location to each particulate hazardous substance that does not meet the criteria for an observed release. (Assign all such particulate hazardous substances this same value.)

-For site locations not on Figure 6-3 and for site locations near the boundary points on Figure 6-3, assign a mobility factor value to each particulate hazardous substance that does not meet the criteria for an observed release as follows:

-Calculate a value M:

 $M=0.0182 (U^3/[PE]^2)$ where:

U=Mean average annual wind speed (meters per second). PE=Thornthwaite P-E index from section 6.1.2.2.3.

 Based on the value M, assign a mobility factor value from Table 6-12 to each particulate hazardous substance.

Gaseous and particulate hazardous substances.

-For a hazardous substance potentially present in both gaseous and particulate forms, select the higher of the factor values for gas mobility and particulate mobility for that substance and assign that value as the mobility factor value for the hazardous substance.

6.2.1.3 Calculation of toxicity/mobility factor value. Assign each hazardous substance a toxicity/mobility factor value from Table 6-13, based on the values assigned to the hazardous substance for the toxicity and mobility factors. Use the hazardous substance with the highest toxicity/mobility factor value to assign a value to the toxicity/mobility factor for the air migration pathway. Enter this value in Table 6-1.

Greater than 10⁻⁷ to 10⁻⁵... Less than or equal to 10⁻⁷..

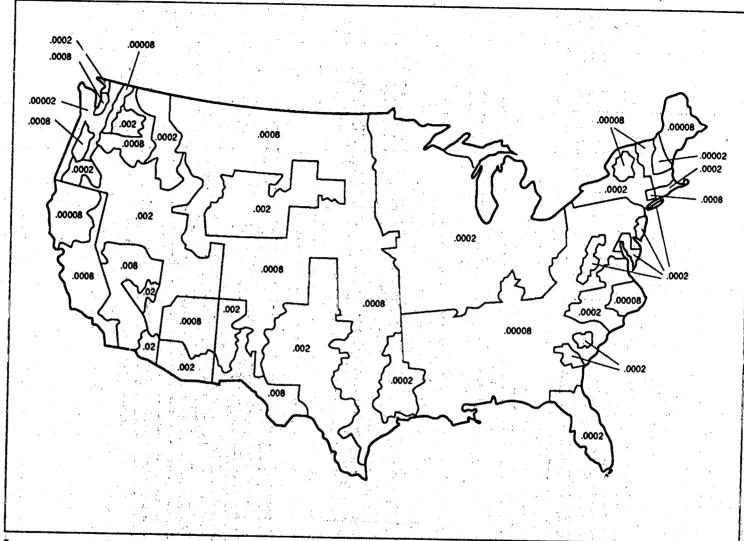
TABLE 6-11.—GAS MOBILITY FACTOR VALUES

TABLE 6-11.—GAS MOBILITY FACTOR VALUES—Concluded Vapor pressure (Torr) Assigned value 4

0.002 0.0002 * Do not round to nearest integer.

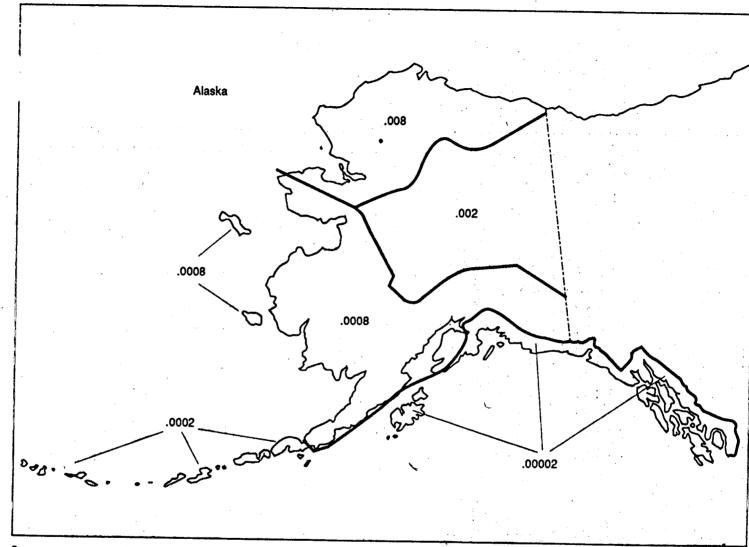
BILLING CODE 6560-50-M

Vapor pressure (Torr)	Assigned value *
Greater than 10 ⁻¹	1.0 0.2 0.02



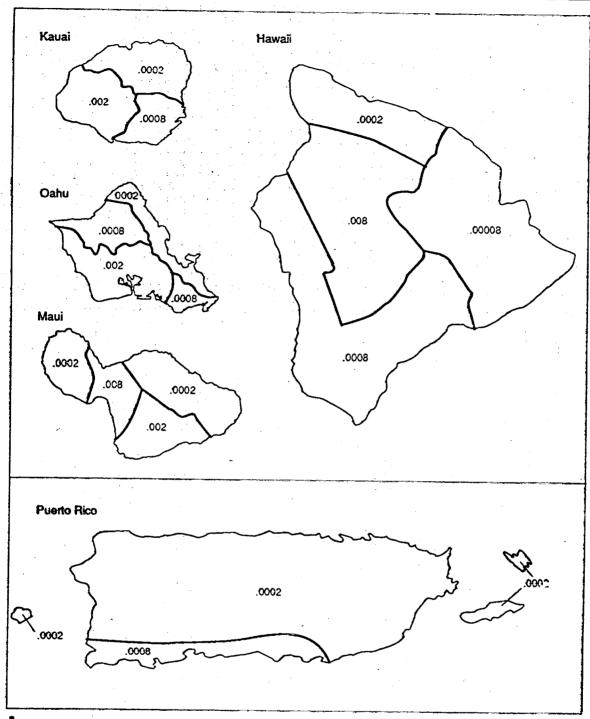
^aDo not round to nearest integer.

FIGURE 6-3
PARTICULATE MOBILITY FACTOR VALUES*



^a Do not round to nearest integer.

FIGURE 6-3
PARTICULATE MOBILITY FACTOR VALUES*
(CONTINUED)



⁸ Do not round to nearest integer.

FIGURE 6-3
PARTICULATE MOBILITY FACTOR VALUES*
(CONTINUED)

BILLING CODE 6560-50-C

FIGURE 6-3.PARTICULATE MOBILITY FACTOR VALUES—CONTINUED

Location	Particulated mobility assigned value
Pacific Islands	
Guam	. 0.0002
Johnston Island	. 0.002
Koror Island	0.00008
Kwajalein Island	. 0.0002
Mujuro, Marshall Islands	. 0.00008
Pago Pago, American Samoa	0.00008
Ponape Island	0.00002
Truk, Caroline Islands	0.00008
Wake Island	0.002
Yap Island	0.00008

FIGURE 6-3.—PARTICULATE MOBILITY FACTOR VALUES—CONCLUDED

Location	Particulated mobility assigned value
American Virgin Islands	
St. Croix	0.0008
St. John	0.0002
St. Thomas	0.0002

TABLE 6-12.—PARTICULATE MOBILITY FACTOR VALUES

M	Assigned value
Greater than 1.4 × 10 ⁻²	0.02
Greater than 4.4 × 10 ⁻³ to	0.008
Greater than 1.4 × 10 ⁻³ to	0.002
Greater than 4.4 × 10 ⁻⁴ to	
1.4 × 10 ⁻³	0.0008
4.4 × 10 ⁻⁴	0.0002
1.4 × 10 ⁻⁴	0.00008
Less than or equal to 4.4×10^{-5}	0.00002

^{*} Do not round to nearest integer

TABLE 6-13.—TOXICITY/MOBILITY FACTOR VALUES *

Mobility factor value	Toxicity factor value						
	10,000	1,000	100	10	1	T	
.0	10,000 2,000 200 80 20 8 2 0.8	1,000 200 20 8 2 0.8 0.2 0.08 0.02	100 20 2 0.8 0.2 0.08 0.02 0.008 0.002	10 2 0.2 0.08 0.02 0.008 0.002 0.0008 0.0002	1 0.2 0.02 0.008 0.002 0.0008 0.0002 0.00008 0.00002		

Do not round to nearest integer

6.2.2 Hazardous waste quantity. Assign a hazardous waste quantity factor value for the air migration pathway as specified in section 2.4.2. Enter this value in Table 6-1.

6.2.3 Calculation of waste characteristics factor category value. Multiply the toxicity/mobility factor value and the hazardous waste quantity factor value, subject to a maximum product of 1 × 10°. Based on this product, assign a value from Table 2-7 (section 2.4.3.1) to the waste characteristics factor category. Enter this value in Table 6-1.

Evaluate the targets factor category based on four factors: nearest individual, population, resources, and sensitive environments. Include only those targets (for example, individuals; sensitive environments) located within the 4-mile target distance limit, except: if an observed release is established beyond the 4-mile target distance limit, include those additional targets that are specified below in this section and in section 6.3.4.

Evaluate the nearest individual and population factors based on whether the target populations are subject to Level I concentrations, Level II concentrations, or potential contamination. Determine which applies to a target population as follows.

If no samples meet the criteria for an observed release to air and if there is no observed release by direct observation, consider the entire population within the 4-mile target distance limit to be subject to potential contamination.

If one or more samples meet the criteria for an observed release to air or if there is an observed release by direct observation, evaluate the population as follows:

• Determine the most distant sample location that meets the criteria for Level I concentrations as specified in sections 2.5.1 and 2.5.2 and the most distant location (that is, sample location or direct observation location) that meets the criteria for Level II concentrations. Use the health-based benchmarks from Table 6-14 in determining the level of contamination for sample locations. If the most distant Level II location is closer to a source than the most distant Level I sample location, do not consider the Level II location.

• Determine the single most distant location (sample location or direct observation location) that ments the criteria for Level I or Level II concentrations.

 If this single most distant location is within the 4-mile target distance limit, identify the distance categories from Table 6-15 in which the selected Level I concentrations sample and Level II concentrations sample (or direct observation location) are located:

> -Consider the target population anywhere within this furthest Level I distance category, or anywhere within a distance category closer to a source at the site, as subject to Level I concentrations.

-Consider the target population located beyond any Level I distance

categories, up to and including the population anywhere within the furthest Level II distance category, as subject to Level II concentrations.

-Consider the remainder of the target population within the 4-mile target distance limit as subject to potential contamination.

 If the single most distant location is beyond the 4-mile target distance limit, identify the distance at which the selected Level I concentrations sample and Level II concentrations sample (or direct observation location) are located:

-If the Level I sample location is within the 4-mile target distance limit, identify the target population subject to Level I concentrations as specified above.

-If the Level I sample location is beyond the 4-mile target distance limit, consider the target population located anywhere within a distance from the sources at the site equal to the distance to this sample location to be subject to Level I concentrations and include them in the evaluation.

-Consider the target population located beyond the Level I target population, but located anywhere within a distance from the sources at the site equal to the distance to the selected Level II location, to be subject to Level II concentrations and include them in the evaluation. Do not include any target population as subject to potential contamination.

TABLE 6-14.—HEALTH-BASED BENCHMARKS FOR HAZARDOUS SUBSTANCES IN AIR

 Concentration corresponding to National Ambient Air Quality Standard (NAAQS).

 Concentration corresponding to National Emission Standards for Hazardous Air Pollutants (NESHAPs).

Screening concentration for cancer corresponding to that concentration that corresponds to the 10⁻⁶ individual cancer risk for inhalation exposures.

 Screening concentration for noncancer toxicological responses corresponding to the Reference Dose (RfD) for inhalation exposures.

TABLE 6-15.—Air Migration Pathway
Distance Weights

Distance category (miles)	Assigned distance weight •
σ	1.0
Greater than 0 to 1/4	0.25
Greater than 1/4 to 1/2	0.054
Greater than ½ to 1	0.016
Greater than 1 to 2	0.0051
Greater than 2 to 3	0.0023
Greater than 3 to 4	0.0014
Greater than 4	

^{*} Do not round to nearest integer.

6.3.1 Nearest individual. Assign the nearest individual factor a value as follows:

 If one or more residences or regularly occupied buildings or areas is subject to Level I concentrations as specified in section 6.3, assign a value of 50.

 If not, but if one or more a residences or regularly occupied buildings or areas is subject to Level II concentrations, assign a value of 45.

 If none of the residences and regularly occupied buildings and areas is subject to Level I or Level II concentrations, assign a value to this factor based on the shortest distance to any residence or regularly occupied building or area, as measured from any source at the site with an air migration containment factor value greater than 0. Based on this shortest distance, assign a value from Table 6-16 to the nearest individual factor.

Enter the value assigned in Table 6-1.

TABLE 6-16.—NEAREST INDIVIDUAL FACTOR VALUES

Distance to nearest individual (miles)	Assigned value
Level 1 concentrations	50
Level II concentrations	45
0 to 1/2	20
Greater than 1/4 to 1/4	7
Greater than ¼ to 1/2	2
Greater than 1/2 to 1	1
Greater than 1	ò

Distance does not apply.

6.3.2 Population. In evaluating the population factor, count residents, students, and workers regularly present within the target distance limit. Do not count transient populations such as customers and travelers passing through the area.

In estimating residential population, when the estimate is based on the number of residences, multiply each residence by the average number of persons per residence for the county in which the residence is located.

6.3.2.1 Level of contamination. Evaluate the population factor based on three factors: Level I concentrations, Level II

concentrations, and potential contamination.

Evaluate the population subject to Level I concentrations (see section 6.3] as specified in section 6.3.2.2, the population subject to Level II concentrations as specified in section 6.3.2.3, and the population subject to potential contamination as specified in section 6.3.2.4.

For the potential contamination factor, use population ranges in evaluating the factor as specified in section 6.3.2.4. For the Level I and Level II concentrations factors, use the population estimate, not population ranges, in evaluating both factors.

6.3.2.2 Level I concentrations. Sum the number of people subject to Level I

concentrations. Multiply this sum by 10. Assign the product as the value for this factor. Enter this value in Table 6-1.

6.3.2.3 Level II concentrations. Sum the number of people subject to Level II concentrations. Do not include those people already counted under the Level I concentrations factor. Assign this sum as the value for this factor. Enter this value in Table 6-1.

6.3.2.4 Potential contamination.

Determine the number of people within each distance category of the target distance limit (see Table 6-15) who are subject to potential contamination. Do not include those people already counted under the Level I and Level II concentrations factors.

Based on the number of people present within a distance category, assign a distance-weighted population value for that distance category from Table 6-17. (Note that the distance-weighted population values in Table 6-17 incorporate the distance weights from Table 8-15. Do not multiply the values from Table 6-17 by these distance weights.)

Calculate the potential contamination factor value (PI) as follows:

$$PI = \frac{1}{N} \sum_{i=1}^{n} W_i$$

where:

W_i=Distance-weighted population from Table 6-17 for distance category i. n=Number of distance categories.

If PI is less than 1, do not round it to the nearest integer; if PI is 1 or more, round to the nearest integer. Enter this value in Table 6-1.

6.3.2.5 Calculation of population factor value. Sum the factor values for Level I concentrations, Level II concentrations, and potential contamination. Do not round this sum to the nearest integer. Assign this sum as the population factor value. Enter this value in Table 6-1.

TABLE 6-17.—DISTANCE-WEIGHTED POPULATION VALUES FOR POTENTIAL CONTAMINATION FACTOR FOR AIR PATHWAY *

Distance category (milco)	Number of people within the distance category												
	0	1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 \$0 300,000	300,001 to 1,000,000	1,000,001 to 3,000,000
On a source Greater than 0 to ¼ Greater than ½ to ½ Greater than ½ to 1 Greater than 1 to 2 Greater than 2 to 3 Greater than 3 to 4	0 0 0 0	4 1 0.2 0.06 0.02 0.009 0.005	17 4 0.9 0.3 0.09 0.04 0.02	53 13 3 0.9 0.3 0.1 0.07	164 41 9 3 0.8 0.4 0.2	522 131 28 8 3 1	1,633 408 88 26 8 4	5,214 1,394 282 83 27 12 7	16,325 4,081 882 261 83 38 23	52,137 13,034 2,815 834 266 120 73	163,246 40,812 8,815 2,612 833 375 229	521,360 130,340 28,153 8,342 2,659 1,199 730	1,632,455 408,114 88,153 26,119 8,326 3,755 2,285

Round the number of people present within a distance category to nearest integer. Do not round the assigned distance-weighted population value to nearest integer.

^{6. 3} Resources. Evaluate the resources factor as follows:

Assign a value of 5 if one or more of the following resources are present within one-

migration containment factor value greater than 0:

-Commercial agriculture. -Commercial silviculture.

 Major or designated recreation area. Assign a value of 0 if none of these

resources is present.

Enter the value assigned in Table 6-1. 6.3.4 Sensitive environments. Evaluate sensitive environments based on two factors: actual contamination and potential contamination. Determine which factor applies as follows.

If no samples meet the criteria for an observed release to air and if there is no observed release by direct observation, consider all sensitive environments located. partially or wholly, within the target distance limit to be subject to potential contamination.

If one or more samples meet the criteria for an observed release to air or if there is an observed release by direct observation, determine the most distant location (that is, sample location or direct observation location) that meets the criteria for an observed release:

 If the most distant location meeting the criteria for an observed release is within the 4-mile target distance limit, identify the distance category from Table 6-15 in which it is located:

> Consider sensitive environments located, partially or wholly, anywhere within this distance category or anywhere within a distance category closer to a source at the site as subject to actual contamination.

-Consider all other sensitive environments located, partially or wholly, within the target distance limit as subject to potential contamination.

· If the most distant location meeting the criteria for an observed release is beyond the 4-mile target distance limit, identify the distance at which it is located:

-Consider sensitive environments located, partially or wholly, anywhere within a distance from the sources at the site equal to the distance to this location to be subject to actual contamination and include all such sensitive environments in the evaluation.

-Do not include any sensitive environments as subject to potential contamination.

6.3.4.1 Actual contamination. Determine those sensitive environments subject to actual contamination (i.e., those located partially or wholly within a distance category subject to actual contamination). Assign value(s) from Table 4-23 (section 4.1.4.3.1.1) to each sensitive environment subject to actual contamination.

For those sensitive environments that are wetlands, assign an additional value from Table 6-18. In assigning a value from Table 6-18, include only those portions of wetlands located within distance categories subject to actual contamination. If a wetland is located partially in a distance category subject to actual contamination and partially in one subject to potential contamination, then solely for purposes of Table 8-18, count the portion in the distance category subject to potential contamination under the potential

contamination factor in section 6.3.4.2. Determine the total acreage of wetlands within those distance categories subject to actual contamination and assign a value from Table 6-18 based on this total acreage

Calculate the actual contamination factor value (EA) as follows:

$$EA = WA + \sum_{i=1}^{n} S_{i}$$

where:

WA=Value assigned from Table 6-18 for wetlands in distance categories subject to actual contamination.

S₁=Value(s) assigned from Table 4-23 to sensitive environment i.

n=Number of sensitive environments subject to actual contamination. Enter the value assigned in Table 6-1.

TABLE 6-18.—WETLANDS RATING VALUES

FOR AIR MIGRATION PATHWAY

Wetland area (acres)	Assigned value
Less than 1	0
1 to 50	25
Greater than 50 to 100	75
Greater than 100 to 150	125
Greater than 150 to 200	175
Greater than 200 to 300	250
Greater than 300 to 400	350
Greater than 400 to 500	450
Greater than 500	500

*Wetlands as defined in 40 CFR section 230.3.

6.3.4.2 Potential contamination. Determine those sensitive environments located, partially or wholly, within the target distance limit that are subject to potential contamination. Assign value(s) from Table

4-23 to each sensitive environment subject to potential contamination. Do not include those sensitive environments already counted for Table 4-23 under the actual contamination factor.

For each distance category subject to potential contamination, sum the value(s) assigned from Table 4-23 to the sensitive environments in that distance category. If a sensitive environment is located in more than one distance category, assign the sensitive environment only to that distance category having the highest distance weighting value from Table 6-15.

For those sensitive environments that are wetlands, assign an additional value from Table 6-18. In assigning a value from Table 6–18, include only those portions of wetlands located within distance categories subject to potential contamination, as specified in section 6.3.4.1. Treat the wetlands in each separate distance category as separate sensitive environments solely for purposes of applying Table 6-18. Determine the total acreage of wetlands within each of these distance categories and assign a separate value from Table 6-18 for each distance

Calculate the potential contamination factor value (EP) as follows:

$$EP = \frac{1}{10} \quad \sum_{j=1}^{m} \{[W_j + S_j]D_j\}$$

Where:

$$S_{j} = \sum_{i=1}^{n} S_{ij}$$

S₁₁=Value(s) assigned from Table 4-23 to sensitive environment in distance category j.

Number of sensitive environments subject to potential contamination.

Wi=Value assigned from Table 8-18 for wetland area in distance category j.

D₁=Distance weight from Table 6-15 for distance category j.

m=Number of distance categories subject to potential contamination.

If EP is less than 1, do not round it to the nearest integer; if EP is 1 or more, round to the nearest integer. Enter the value assigned in Table 6-1.

6.3.4.3 Calculation of sensitive environments factor value. Sum the factor values for actual contamination and potential contamination. Do not round this sum. designated as EB, to the nearest integer

Because the pathway score based solely on sensitive environments is limited to a maximum of 60, use the value EB to determine the value for the sensitive environments factor as follows:

 Multiply the values assigned to likelihood of release (LR), waste characteristics (WC), and EB. Divide the product by 82,500.

> -If the result is 60 or less, assign the value EB as the sensitive environments factor value.

-If the result exceeds 60, calculate a value EC as follows:

$$EC = \frac{(60)(82,500)}{(LR)(WC)}$$

Assign the value EC as the sensitive environments factor value. Do not round this value to the nearest integer. Enter the value assigned for the sensitive environments factor in Table 6–1.

6.3.5 Calculation of targets factor category value. Sum the nearest individual, population, resources, and sensitive environments factor values. Do not round this sum to the nearest integer. Assign this sum as the targets factor category value. Enter this value in Table 6-1.

6.4 Calculation of air migration pathway score. Multiply the values for likelihood of release, waste characteristics, and targets, and round the product to the nearest integer. Then divide by 82,500. Assign the resulting value, subject to a maximum value of 100, as the air migration pathway score (S.). Enter this score in Table 6-1.